First Hit

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L14: Entry 1 of 9 File: DWPI Oct 3, 2002

DERWENT-ACC-NO: 2002-692199
DERWENT-WEEK: 200276


TITLE: New mouse monoclonal antibodies against western equine encephalitis virus (WEEV) useful in immunodetection of WEEV, diagnosis of infection and immunotherapy

INVENTOR: NAGATA, L P

PRIORITY-DATA: 2001CA-2332651 (February 14, 2001), 2001US-0793606 (February 27, 2001)

Search Selected | Search ALL | Clear

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 20020141997 A1 | October 3, 2002 | | 000 | A61K039/42 |
| CA 2332651 A1 | August 14, 2002 | E | 010 | C07K016/08 |

INT-CL (IPC): A61 K 39/42; C07 K 16/08; C12 N 5/12; C12 P 21/08; C12 Q 1/70; G01 N 33/532; G01 N 33/543; G01 N 33/577

ABSTRACTED-PUB-NO: CA 2332651A
BASIC-ABSTRACT:

NOVELTY - Mouse monoclonal antibodies against western equine encephalitis virus (WEEV) expressed from hybridomas are new.

USE - The monoclonal antibodies can be used in immunodetection of WEEV and diagnosis of WEEV infection, e.g. they can be used in immunohistochemistry techniques, radioimmunodiagnosis or immunoassays such as enzyme linked immunosorbant assay (ELISA)-based detection assays to detect WEEV.

Antibodies binding to WEEV in ELISA assays at dilutions greater than 1 in 320 and having no cross-reactivity with other alphaviruses are especially useful in WEEV detection and diagnosis. The antibodies are also useful in immunotherapy and radioimmunotherapy (claimed) for WEEV infection.

ABSTRACTED-PUB-NO: CA 2332651A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/3

# Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

**Search Results** - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20020141997 A1, CA 2332651 A1

L14: Entry 1 of 9 File: DWPI Oct 3, 2002

DERWENT-ACC-NO: 2002-692199
DERWENT-WEEK: 200276
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TITLE: New mouse monoclonal antibodies against western equine encephalitis virus (WEEV) useful in immunodetection of WEEV, diagnosis of infection and immunotherapy

INVENTOR: NAGATA, L P

PRIORITY-DATA: 2001CA-2332651 (February 14, 2001), 2001US-0793606 (February 27, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 20020141997 A1 | October 3, 2002 | | 000 | A61K039/42 |
| CA 2332651 A1 | August 14, 2002 | E | 010 | C07K016/08 |

INT-CL (IPC): A61 K 39/42; C07 K 16/08; C12 N 5/12; C12 P 21/08; C12 Q 1/70; G01 N 33/532; G01 N 33/543; G01 N 33/577

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 2. Document ID: EP 1355895 A2, WO 200250053 A2, AU 200245095 A

L14: Entry 2 of 9 File: DWPI Oct 29, 2003

DERWENT-ACC-NO: 2002-575343
DERWENT-WEEK: 200379
COPYRIGHT 2003 DERWENT INFORMATION LTD
TITLE: New eremophilane sesquiterpenes other than valencene, nootkatone, nootkatol, epinootkatol or nootkatene useful as pesticides

INVENTOR: DOLAN, M C; KARCHESY, J ; MAUPIN, G O ; PANELLA, N A

PRIORITY-DATA: 2000US-254311P (December 8, 2000)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| EP 1355895 A2 | October 29, 2003 | E | 000 | C07D303/04 |

| | | | | |
|---|---|---|---|---|
| WO 200250053 A2 | June 27, 2002 | E | 089 | C07D303/04 |
| AU 200245095 A | July 1, 2002 | | 000 | C07D303/04 |

INT-CL (IPC): A01 N 31/04; A01 N 43/20; C07 C 33/14; C07 C 47/225; C07 D 303/04; C07 D 303/32

Full | Title | Citation | Front | Review | Classification | Date | Reference | ... | Claims | KWIC | Draw De

☐ 3. Document ID: US 20030143201 A1, CA 2327189 A1

L14: Entry 3 of 9 File: DWPI Jul 31, 2003

DERWENT-ACC-NO: 2002-600289
DERWENT-WEEK: 200357
COPYRIGHT 2003 DERWENT INFORMATION LTD
TITLE: A western equine encephalitis (WEE) virus strain used to develop DNA vaccines to WEE virus and related alphaviruses

INVENTOR: NAGATA, L P; WONG, J P

PRIORITY-DATA: 2000CA-2327189 (December 21, 2000), 2001US-0023649 (December 21, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 20030143201 A1 | July 31, 2003 | | 000 | A61K048/00 |
| CA 2327189 A1 | June 21, 2002 | E | 052 | C12N007/00 |

INT-CL (IPC): A61 K 39/12; A61 K 48/00; C12 N 7/00; C12 N 15/11; C12 N 15/63

Full | Title | Citation | Front | Review | Classification | Date | Reference | ... | Claims | KWIC | Draw De

☐ 4. Document ID: US 6017691 A

L14: Entry 4 of 9 File: DWPI Jan 25, 2000

DERWENT-ACC-NO: 2000-136668
DERWENT-WEEK: 200378
COPYRIGHT 2003 DERWENT INFORMATION LTD
TITLE: Composition having anti-viral properties comprises a psoralen derivative and platelets for in vivo use

INVENTOR: ISAACS, S T; NERIO, A ; RAPOPORT, H ; SPIELMANN, H P ; WOLLOWITZ, S

PRIORITY-DATA: 1994US-0212113 (March 11, 1994), 1993US-0083459 (June 28, 1993), 1996US-0599284 (February 9, 1996)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 6017691 A | January 25, 2000 | | 062 | A01N001/02 |

1: Netolitzky DJ, Schmaltz FL, Parker MD, Rayner GA, Fisher GR, Trent DW, Bader DE, Nagata LP. Related Articles, Links

Complete genomic RNA sequence of western equine encephalitis virus and expression of the structural genes.
J Gen Virol. 2000 Jan;81(Pt 1):151-9.
PMID: 10640553 [PubMed - indexed for MEDLINE]

2: Weaver SC, Hagenbaugh A, Bellew LA, Netesov SV, Volchkov VE, Chang GJ, Clarke DK, Gousset L, Scott TW, Trent DW, et al. Related Articles, Links

A comparison of the nucleotide sequences of eastern and western equine encephalomyelitis viruses with those of other alphaviruses and related RNA viruses.
Virology. 1993 Nov;197(1):375-90. Erratum in: Virology. 1994 Aug 1;202(2):1083.
PMID: 8105605 [PubMed - indexed for MEDLINE]

3: Meissner JD, Huang CY, Pfeffer M, Kinney RM. Related Articles, Links

Sequencing of prototype viruses in the Venezuelan equine encephalitis antigenic complex.
Virus Res. 1999 Oct;64(1):43-59.
PMID: 10500282 [PubMed - indexed for MEDLINE]

4: Chang GJ, Trent DW. Related Articles, Links

Nucleotide sequence of the genome region encoding the 26S mRNA of eastern equine encephalomyelitis virus and the deduced amino acid sequence of the viral structural proteins.
J Gen Virol. 1987 Aug;68 ( Pt 8):2129-42.
PMID: 2886548 [PubMed - indexed for MEDLINE]

5: Kinney RM, Johnson BJ, Welch JB, Tsuchiya KR, Trent DW. Related Articles, Links

The full-length nucleotide sequences of the virulent Trinidad donkey strain of Venezuelan equine encephalitis virus and its attenuated vaccine derivative, strain TC-83.
Virology. 1989 May;170(1):19-30.
PMID: 2524126 [PubMed - indexed for MEDLINE]

6: Weaver SC, Kang W, Shirako Y, Rumenapf T, Strauss EG, Strauss JH. Related Articles, Links

Recombinational history and molecular evolution of western equine encephalomyelitis complex alphaviruses.
J Virol. 1997 Jan;71(1):613-23.
PMID: 8985391 [PubMed - indexed for MEDLINE]

7: Strauss EG, Rice CM, Strauss JH. Related Articles, Links

Complete nucleotide sequence of the genomic RNA of Sindbis virus.
Virology. 1984 Feb;133(1):92-110.
PMID: 6322438 [PubMed - indexed for MEDLINE]

**8:** Johnson BJ, Kinney RM, Kost CL, Trent DW. Related Articles, Links

Molecular determinants of alphavirus neurovirulence: nucleotide and deduced protein sequence changes during attenuation of Venezuelan equine encephalitis virus.
J Gen Virol. 1986 Sep;67 ( Pt 9):1951-60.
PMID: 3755750 [PubMed - indexed for MEDLINE]

**9:** Jan LR, Chen KL, Lu CF, Horng CB. Related Articles, Links

Partial nucleotide sequence of Japanese encephalitis virus ling strain genome and comparison of the encoded structural proteins and nonstructural protein NS1 among Japanese encephalitis virus strains.
Zhonghua Min Guo Wei Sheng Wu Ji Mian Yi Xue Za Zhi. 1994 May;27(2):80-9.
PMID: 9747336 [PubMed - indexed for MEDLINE]

**10:** Vrati S, Giri RK, Razdan A, Malik P. Related Articles, Links

Complete nucleotide sequence of an Indian strain of Japanese encephalitis virus: sequence comparison with other strains and phylogenetic analysis.
Am J Trop Med Hyg. 1999 Oct;61(4):677-80.
PMID: 10548310 [PubMed - indexed for MEDLINE]

**11:** Sokolova TM, Selivanova TK, Lebedev AIu, Bystrov NS, Gromashevskii VL, Parasiuk NA, Ionova KS, Uryvaev LV. Related Articles, Links

[Similarities and differences between western equine encephalomyelitis viruses with respect to genes for nonstructural protein NSP2 and structural proteins C and E2]
Vopr Virusol. 1996 Sep-Oct;41(5):209-14. Russian.
PMID: 8967065 [PubMed - indexed for MEDLINE]

**12:** Schoepp RJ, Smith JF, Parker MD. Related Articles, Links

Recombinant chimeric western and eastern equine encephalitis viruses as potential vaccine candidates.
Virology. 2002 Oct 25;302(2):299-309.
PMID: 12441074 [PubMed - indexed for MEDLINE]

**13:** Shirako Y, Yamaguchi Y. Related Articles, Links

Genome structure of Sagiyama virus and its relatedness to other alphaviruses.
J Gen Virol. 2000 May;81(Pt 5):1353-60.
PMID: 10769079 [PubMed - indexed for MEDLINE]

**14:** Uryvaev LV, Volckhov VE, Iuferov VP, Samokhvalov EI, Lebedev AIu, Safronov PF, Netesov SV. Related Articles, Links

[Primary structure of proteins of the nsP2 and nsP3 polymerase complex confirm the recombinant nature of western encephalitis virus]
Dokl Akad Nauk. 1994 Apr;335(6):813-8. Russian. No abstract available.
PMID: 8025555 [PubMed - indexed for MEDLINE]

**15:** Khan AH, Morita K, Parquet Md Mdel C, Hasebe F, Mathenge EG, Igarashi A. Related Articles, Links

Complete nucleotide sequence of chikungunya virus and evidence for an internal polyadenylation site.

INT-CL (IPC): A01 N 1/02; A01 N 63/00; C12 N 7/06

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 5. Document ID: EP 1032265 B1, WO 9926476 A1, AU 9915929 A, EP 1032265 A1, US 6133460 A, AU 747842 B, US 6455286 B1, US 20030082510 A1, JP 2003525848 W

L14: Entry 5 of 9 File: DWPI Oct 29, 2003

DERWENT-ACC-NO: 1999-357694
DERWENT-WEEK: 200379
COPYRIGHT 2003 DERWENT INFORMATION LTD
TITLE: Psoralen compounds and their salts, e.g. 3-(4-amino-2-oxa)butyl-4,4'-8-trimethyl-psoralen

INVENTOR: NERIO, A; WOLLOWITZ, S

PRIORITY-DATA: 1998US-0196935 (November 20, 1998), 1997US-066224P (November 20, 1997), 2000US-0500680 (February 9, 2000), 2002US-0208583 (July 30, 2002)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| EP 1032265 B1 | October 29, 2003 | E | 000 | A01N043/16 |
| WO 9926476 A1 | June 3, 1999 | E | 053 | A01N043/16 |
| AU 9915929 A | June 15, 1999 | | 000 | |
| EP 1032265 A1 | September 6, 2000 | E | 000 | A01N043/16 |
| US 6133460 A | October 17, 2000 | | 000 | C07D493/00 |
| AU 747842 B | May 23, 2002 | | 000 | A01N043/16 |
| US 6455286 B1 | September 24, 2002 | | 000 | C12N013/00 |
| US 20030082510 A1 | May 1, 2003 | | 000 | A01N001/02 |
| JP 2003525848 W | September 2, 2003 | | 066 | C07D493/04 |

INT-CL (IPC): A01 N 1/02; A01 N 43/16; A61 K 31/35; A61 K 31/352; A61 K 35/14; A61 P 31/00; A61 P 43/00; C07 D 211/72; C07 D 493/00; C07 D 493/04; C12 N 13/00

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 6. Document ID: WO 9853077 A1, AU 9875018 A, US 6261570 B1

L14: Entry 6 of 9 File: DWPI Nov 26, 1998

DERWENT-ACC-NO: 1999-045316
DERWENT-WEEK: 199904
COPYRIGHT 2003 DERWENT INFORMATION LTD
TITLE: New DNA encoding infectious Western or Venezuelan equine encephalitis virus genome - useful for the production of live or attenuated vaccines for human or veterinary medicine

INVENTOR: CRISE, B J; OBERSTE, M S ; PARKER, M D ; SCHMURA, S M ; SMITH, J F

PRIORITY-DATA: 1997US-0991840 (December 16, 1997), 1997US-047162P (May 20, 1997),

1997US-053652P (July 24, 1997)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| WO 9853077 A1 | November 26, 1998 | E | 111 | C12N015/40 |
| AU 9875018 A | December 11, 1998 | | 000 | C12N015/40 |
| US 6261570 B1 | July 17, 2001 | | 000 | A61K039/12 |

INT-CL (IPC): A61 K 39/12; A61 K 39/193; C12 N 7/01; C12 N 7/04; C12 N 15/40; C12 N 15/86

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 7. Document ID: EP 85859 A, DE 3362840 G, EP 85859 B, JP 58134992 A, JP 90013677 B, US 4503152 A, US 4626547 A

L14: Entry 7 of 9 File: DWPI Aug 17, 1983

DERWENT-ACC-NO: 1983-742376
DERWENT-WEEK: 198334
COPYRIGHT 2003 DERWENT INFORMATION LTD
TITLE: Antibiotic AM-2604-A produced by Streptomyces strain - with coccidiostatic, trichomonacidal, antifungal and antiviral activity

INVENTOR: HINOTOZAWA, K; IWAI, Y ; OMURA, S ; SHIMIZU, H

PRIORITY-DATA: 1982JP-0006756 (January 21, 1982)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| EP 85859 A | August 17, 1983 | E | 039 | |
| DE 3362840 G | May 15, 1986 | | 000 | |
| EP 85859 B | April 9, 1986 | E | 000 | |
| JP 58134992 A | August 11, 1983 | | 000 | |
| JP 90013677 B | April 4, 1990 | | 000 | |
| US 4503152 A | March 5, 1985 | | 000 | |
| US 4626547 A | December 2, 1986 | | 000 | |

INT-CL (IPC): A23K 1/16; A61K 31/36; A61K 35/74; C07D 407/06; C07G 11/00; C07H 13/04; C12P 1/06; C12P 17/16; C12R 1/46

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 8. Document ID: EP 39923 A, CA 1153967 A, DE 3161484 G, EP 39923 B, JP 56158795 A, JP 87042918 B, US 4533547 A

L14: Entry 8 of 9 File: DWPI Nov 18, 1981

DERWENT-ACC-NO: 1981-87515D
DERWENT-WEEK: 198148

COPYRIGHT 2003 DERWENT INFORMATION LTD
TITLE: Antiviral antibiotic AM-2722 - prepd. by culturing Streptomyces sp. aerobically, also has antifungal and anti-yeast activity

INVENTOR: HASHIMOTO, H; HIRANO, A ; IWAI, Y ; KOJIMA, Y ; NAKAGAWA, A ; OIWA, R ; OMURA, S

PRIORITY-DATA: 1980JP-0061936 (May 10, 1980)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| EP 39923 A | November 18, 1981 | E | 025 | |
| CA 1153967 A | September 20, 1983 | | 000 | |
| DE 3161484 G | December 29, 1983 | | 000 | |
| EP 39923 B | November 23, 1983 | E | 000 | |
| JP 56158795 A | December 7, 1981 | | 000 | |
| JP 87042918 B | September 10, 1987 | | 000 | |
| US 4533547 A | August 6, 1985 | | 000 | |

INT-CL (IPC): A61K 35/66; C07G 11/00; C12N 1/02; C12P 1/02; C12R 1/46

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 9. Document ID: US 3651211 A

L14: Entry 9 of 9 File: DWPI

DERWENT-ACC-NO: 1972-25238T
DERWENT-WEEK: 197216
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TITLE: Virus inactivation - using sulphydryl reagents

PRIORITY-DATA: 1967US-0675281 (October 16, 1967)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 3651211 A | | | 000 | |

INT-CL (IPC): A61K 23/00; C12K 7/00

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

| Terms | Documents |
|---|---|
| Western equine encephalitis | 9 |

**Display Format:** CIT Change Format

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First Hit

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L14: Entry 3 of 9 File: DWPI Jul 31, 2003

DERWENT-ACC-NO: 2002-600289
DERWENT-WEEK: 200357


TITLE: A western equine encephalitis (WEE) virus strain used to develop DNA vaccines to WEE virus and related alphaviruses

INVENTOR: NAGATA, L P; WONG, J P

PRIORITY-DATA: 2000CA-2327189 (December 21, 2000), 2001US-0023649 (December 21, 2001)

Search Selected Search ALL Clear

PATENT-FAMILY:

| | PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|---|
| ☐ | US 20030143201 A1 | July 31, 2003 | | 000 | A61K048/00 |
| ☐ | CA 2327189 A1 | June 21, 2002 | E | 052 | C12N007/00 |

INT-CL (IPC): A61 K 39/12; A61 K 48/00; C12 N 7/00; C12 N 15/11; C12 N 15/63

ABSTRACTED-PUB-NO: CA 2327189A
BASIC-ABSTRACT:

NOVELTY - A western equine encephalitis (WEE) virus strain 71V-1658 comprising a fully defined 11484 nucleotide sequence (I), given in the specification, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a process (P1) for preparing a recombinant DNA vaccine for inducing protective immune response to WEE virus in a mammal by preparing a nucleic acid suitable for producing an antigenic determinant in a mammal in vivo by encoding an antigenic determinant of WEE virus strain 71V-1658 structural proteins operatively linked to a mammalian expression promoter;

(2) a prophylactic method (M1) for inducing protective immune response to WEE virus in a mammal comprising:

(i) preparing a nucleic acid suitable for producing antigenic determinant in a mammal in vivo by encoding antigenic determinant of WEE virus 71V-1658 structural proteins operatively linked to a mammalian expression promoter; and

(ii) delivering the nucleic acid into the mammal;

(3) a structural gene pcDWXH-7 comprising a fully defined 4150 nucleotide sequence (II) given in the specification;

(4) a recombinant DNA expression vector pVHX-6 comprising a fully defined upstream 3495 nucleotide sequence (III) given in the specification and having a remaining nucleotide sequence identical to that of structural gene pcDWXH-7 of sequence (II) from the point of divergence;

(5) a recombinant DNA vaccine for inducing protective immune response to WEE virus where the structural proteins of WEE virus sequence (II) is operationally linked to a cytomegalovirus promoter in a nucleic acid pVHX-6 of sequence (III).

ACTIVITY - Anti-encephalitis.

MECHANISM OF ACTION - None given.

USE - The invention provides a means of developing a vaccine to the WEE virus which is important for protection against an aerosol challenge of WEE used in biological warfare. The prophylactic method of the invention is used for inducing a protective immune response to eastern equine encephalitis virus and Venezuelan equine encephalitis virus in a mammal.

DESCRIPTION OF DRAWING(S) - Diagram showing the WEE 71V-1658 sequencing strategy. The location of polymerase chain reaction probe sequences used to screen the WEE cDNA library are also indicated, along with the genomic organization of the virus.

ABSTRACTED-PUB-NO: CA 2327189A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/11

# WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Tuesday, December 30, 2003

| Hide? | Set Name | Query | Hit Count |
|---|---|---|---|
| | | *DB=DWPI; PLUR=YES; OP=ADJ* | |
| ☐ | L14 | Western equine encephalitis | 9 |
| | | *DB=EPAB; PLUR=YES; OP=ADJ* | |
| ☐ | L13 | L12 | 0 |
| ☐ | L12 | CA-2332651-A1.did. | 0 |
| ☐ | L11 | CA-2332651-A1.did. | 0 |
| | | *DB=DWPI; PLUR=YES; OP=ADJ* | |
| ☐ | L10 | Western equine encephalitis | 9 |
| ☐ | L9 | L3 and recombinant | 0 |
| | | *DB=USPT; PLUR=YES; OP=ADJ* | |
| ☐ | L8 | L3 and recombinant .clm. | 17 |
| ☐ | L7 | L3 and recombinant | 78 |
| ☐ | L6 | Strauss James H.in. | 0 |
| ☐ | L5 | Strauss James.in. | 1 |
| ☐ | L4 | Western equine encephalitis.clm. | 4 |
| ☐ | L3 | Western equine encephalitis | 135 |
| ☐ | L2 | Hahn Chang.in. | 1 |
| ☐ | L1 | Hahn .in. | 2342 |

END OF SEARCH HISTORY

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=> d his

     (FILE 'HOME' ENTERED AT 16:06:55 ON 30 DEC 2003)

     FILE 'MEDLINE' ENTERED AT 16:07:03 ON 30 DEC 2003
L1           214 S WESTERN EQUINE ENCEPHALITIS
L2         27331 S NUCLEOTIDE SEQUENCE
L3             4 S L1 AND L2
                 E NAGATA L P/AU
L4            11 S E3
L5             4 S E4
L6             5 S L1 AND L4
L7             0 S L5 AND L1
```

=> d l6 1-3 all

L6 ANSWER 1 OF 5 MEDLINE on STN
AN 2001199163 MEDLINE
DN 21182855 PubMed ID: 11289221
TI Pharmacokinetics study of a novel chimeric single-chain variable fragment antibody against **western equine encephalitis** virus.
AU Long M C; Marshall K E; Kearney B J; Ludwig G V; Wong J P; **Nagata L P**
CS Chemical and Biological Defence Section, Defence Research Establishment Suffield, Medicine Hat, Alberta, Canada.
SO HYBRIDOMA, (2001 Feb) 20 (1) 1-10.
Journal code: 8202424. ISSN: 0272-457X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200108
ED Entered STN: 20010827
Last Updated on STN: 20010827
Entered Medline: 20010823
AB A novel recombinant single-chain fragment variable (scFv) antibody against **western equine encephalitis** (WEE) virus has been previously constructed and partially characterized. The RS10B5huFc antibody was made by fusing an anti-WEE scFv to a human heavy-chain IgG1 constant region. The RS10B5huFc antibody was functional in binding to WEE virus in enzyme-linked immunosorbent assays (ELISAs), and the Fc domain of the antibody was capable of effector functions, such as binding to protein G and human complement. In this study, the RS10B5huFc antibody was further characterized by BIAcore analyses and was found to possess a binding affinity to a WEE virus epitope (K[D] = 9.14 x 10(-6) M), 4.5-fold lower than its parental mouse monoclonal antibody (MAb) 10B5 E7E2 (K[D] = 2 x 10(-6) M). No cross-reactivity was found between the RS10B5huFc antibody and three other alphaviruses (Sindbis virus [SIN], Venezuelan equine encephalitis [VEE] virus, and eastern equine encephalitis [EEE] virus). Pharmacokinetics studies showed that the RS10B5huFc antibody (free and encapsulated) was found to be retained in the lungs of mice for greater than 48 h when administered intranasally. In contrast, when administered intramuscularly to mice, the RS10B5huFc antibody was not detected in the lungs and only found in the liver and kidneys.
CT Check Tags: Animal; Support, Non-U.S. Gov't
Administration, Intranasal
Alphavirus: IM, immunology
*Antibodies, Viral: AD, administration & dosage
Antibodies, Viral: ME, metabolism
Antibodies, Viral: PD, pharmacology
Antibody Specificity
*Chimeric Proteins: AD, administration & dosage
Chimeric Proteins: PK, pharmacokinetics
Cross Reactions
Drug Compounding
*Encephalitis Virus, Western Equine: IM, immunology
*Immunoglobulin Fragments: AD, administration & dosage
Immunoglobulin Fragments: ME, metabolism
Immunoglobulin Fragments: PD, pharmacology
*Immunoglobulin Variable Region: AD, administration & dosage
Immunoglobulin Variable Region: ME, metabolism
Immunoglobulin Variable Region: PD, pharmacology
Injections, Intramuscular
Liposomes

Mice
Mice, Inbred BALB C
Organ Specificity
Tissue Distribution
CN 0 (Antibodies, Viral); 0 (Chimeric Proteins); 0 (Immunoglobulin Fragments); 0 (Immunoglobulin Variable Region); 0 (Liposomes)

L6 ANSWER 2 OF 5 MEDLINE on STN
AN 2001075851 MEDLINE
DN 20324643 PubMed ID: 10868791
TI Construction and characterization of monoclonal antibodies against **western equine encephalitis** virus.
AU Long M C; **Nagata L P**; Ludwig G V; Alvi A Z; Conley J D; Bhatti A R; Suresh M R; Fulton R E
CS Medical Countermeasures Section, Defence Research Establishment Suffield, Alberta, Canada.
SO HYBRIDOMA, (2000 Apr) 19 (2) 121-7.
Journal code: 8202424. ISSN: 0272-457X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200101
ED Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20010111
AB A repertoire of mouse monoclonal antibodies (MAbs) against **western equine encephalitis** virus (WEE) was constructed and characterized. Anti-WEE antibodies were expressed from hybridomas and purified by protein G chromatography. Each of the antibodies was functionally assessed by indirect enzyme-linked immunosorbent assays (ELISAs), Western blotting, and immunoprecipitations. All antibodies bound to WEE antigen in ELISAs, whereas only a subgroup of antibodies was found to be active in Western blotting and immunoprecipitations. A subset of antibodies was found to cross-react with other alphaviruses, such as Sindbis virus (SIN), Venezuelan equine encephalitis (VEE), and eastern equine encephalitis (EEE). Because many of the antibodies were highly reactive to WEE antigen in one or more of the assays, these antibodies are excellent candidates for immunodetection and immunotherapy studies.
CT Check Tags: Animal; Support, Non-U.S. Gov't
*Antibodies, Monoclonal: IM, immunology
Antigens, Viral: IM, immunology
Blotting, Western
Cross Reactions
Encephalitis Virus, Eastern Equine: IM, immunology
Encephalitis Virus, Venezuelan Equine: IM, immunology
*Encephalitis Virus, Western Equine: IM, immunology
Enzyme-Linked Immunosorbent Assay
Hybridomas: CH, chemistry
Immunoglobulin Isotypes: AN, analysis
Mice
Mice, Inbred BALB C
Precipitin Tests
Sindbis Virus: IM, immunology
CN 0 (Antibodies, Monoclonal); 0 (Antigens, Viral); 0 (Immunoglobulin Isotypes)

L6 ANSWER 3 OF 5 MEDLINE on STN
AN 2000229323 MEDLINE
DN 20229323 PubMed ID: 10768836
TI Construction and characterization of a novel recombinant single-chain variable fragment antibody against **Western equine**

**encephalitis** virus.

AU Long M C; Jager S; Mah D C; Jebailey L; Mah M A; Masri S A; **Nagata L P**

CS Medical Countermeasures Section, Defence Research Establishment Suffield, Medicine Hat, Alberta, Canada.

SO HYBRIDOMA, (2000 Feb) 19 (1) 1-13.
Journal code: 8202424. ISSN: 0272-457X.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200007

ED Entered STN: 20000810
Last Updated on STN: 20000810
Entered Medline: 20000721

AB A novel recombinant single-chain fragment variable (scFv) antibody against **Western equine encephalitis** virus (WEE) was constructed and characterized. Using antibody phage display technology, a scFv was generated from the WEE specific hybridoma, 10B5 E7E2. The scFv was fused to a human heavy chain IgG1 constant region (CH1-CH3) and contained an intact 6 His tag and enterokinase recognition site (RS10B5huFc). The RS10B5huFc antibody was expressed in E. coli and purified by affinity chromatography as a 70-kDa protein. The RS10B5huFc antibody was functional in binding to WEE antigen in indirect enzyme-linked immunosorbent assays (ELISAs). Furthermore, the RS10B5huFc antibody was purified in proper conformation and formed multimers. The addition of the human heavy chain to the scFv replaced effector functions of the mouse antibody. The Fc domain was capable of binding to protein G and human complement. The above properties of the RS10B5huFc antibody make it an excellent candidate for immunodetection and immunotherapy studies.

CT Check Tags: Animal; Human; Support, Non-U.S. Gov't
Amino Acid Sequence
*Antibodies, Viral: CH, chemistry
*Antibodies, Viral: GE, genetics
Antibodies, Viral: IP, isolation & purification
Antibodies, Viral: ME, metabolism
Antigens, Viral: IM, immunology
Antigens, Viral: ME, metabolism
Binding Sites, Antibody
Cloning, Molecular
*Encephalitis Virus, Western Equine: IM, immunology
Hybridomas
*Immunoglobulin Variable Region: CH, chemistry
*Immunoglobulin Variable Region: GE, genetics
Immunoglobulin Variable Region: ME, metabolism
*Immunoglobulins, Fc: CH, chemistry
*Immunoglobulins, Fc: GE, genetics
Immunoglobulins, Fc: ME, metabolism
Mice
Molecular Sequence Data
*Recombinant Proteins: CS, chemical synthesis
Recombinant Proteins: IM, immunology
Recombinant Proteins: IP, isolation & purification
Recombinant Proteins: ME, metabolism

CN 0 (Antibodies, Viral); 0 (Antigens, Viral); 0 (Binding Sites, Antibody); 0 (Immunoglobulin Variable Region); 0 (Immunoglobulins, Fc); 0 (Recombinant Proteins)

J Gen Virol. 2002 Dec;83(Pt 12):3075-84.
PMID: 12466484 [PubMed - indexed for MEDLINE]

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Virology. 1986 Jul 30;152(2):400-13.
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Nucleotide sequence of dengue type 3 virus genomic RNA encoding viral structural proteins.
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